## **Claims**

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1. A pharmaceutically active compound represented by formula III;

5 or a pharmaceutically acceptable salt thereof wherein:

X<sup>1</sup> - X<sup>3</sup> are independently C or N;

 $X^4$  is CH or N, wherein not more than two of  $X^1$  -  $X^4$  is N;

when  $X^5$  is N,  $R^5$  is a lone pair,  $X^{10}$  is CH and the bond between  $X^5$  and  $X^{10}$  is a double bond;

when  $X^5$  is CH,  $R^5$  is H,  $X^{10}$  is CH<sub>2</sub> and the bond between  $X^5$  and  $X^{10}$  is a single bond;

when  $X^5$  is C,  $R^5$  may be defined as below,  $X^{10}$  is CH and the bond between  $X^5$  and  $X^{10}$  is a double bond;

 $X^6$  -  $X^8$  are independently C or N;

 $X^9$  is CH or N, wherein not more than two of  $X^6$  -  $X^9$  is N;

 $R^1$ - $R^3$  and  $R^6$ - $R^8$  represent a lone pair or O when each respective  $X^1$ - $X^3$  and  $X^6$ - $X^8$  is N; and

when  $X^1 - X^3$  or  $X^6 - X^8$  is C, each respective  $R^1 - R^3$  and  $R^6 - R^8$  is independently selected from the group consisting of:

a) H, substituted or unsubstituted C(1-8) alkyl, halogen, azido, cyano, nitro, or NR<sup>21</sup>R<sup>22</sup>, wherein R<sup>21</sup> represents H or C(1-8) alkyl, and R<sup>22</sup> represents H, substituted or unsubstituted C(1-8) alkylcarbonyl, substituted or unsubstituted arylcarbonyl, heterocycle, substituted or unsubstituted heteroarylcarbonyl, substituted or unsubstituted C(1-8) alkylaminocarbonyl, substituted or unsubstituted
 25 arylaminocarbonyl;

b) OR<sup>23</sup>, wherein R<sup>23</sup> is H, substituted or unsubstituted alkylcarbonyl, substituted or unsubstituted arylcarbonyl;

- c) SR<sup>23</sup>, wherein R<sup>23</sup> is defined as in b);
- d) O(CH<sub>2</sub>)<sub>j</sub>-R<sup>24</sup>, O(CH<sub>2</sub>)<sub>j</sub>-O-R<sup>24</sup>, or O(CH<sub>2</sub>)<sub>j</sub>-S-R<sup>24</sup>, wherein j is an integer from 1 to 8, and R<sup>24</sup> is selected from the group consisting of H, substituted or unsubstituted C(1-8) alkyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl;
- e)  $S(CH_2)_jR^{24}$ ,  $S(CH_2)_j-O-R^{24}$ , or  $S(CH_2)_j-S-R^{24}$ , wherein j and  $R^{24}$  are defined as in d);
- f)  $C = C R^{25}$ ,  $C = C OR^{25}$ , or  $C = C CO_2R^{25}$ , wherein  $R^{25}$  is H, substituted or unsubstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
- g) CH=CH-R<sup>25</sup>, CH=CH-OR<sup>25</sup>, or CH=CH-CO<sub>2</sub>R<sup>25</sup>, having a stereochemistry of E or Z, and R<sup>25</sup> is defined as in f);
  - h)  $C = C NR^{25}R^{26}$  or  $C = CCONR^{25}R^{26}$ , wherein  $R^{25}$  is defined as in f), and  $R^{26}$  is defined as  $R^{25}$ , and  $R^{25}$  and  $R^{26}$  are selected independently;
  - i) CH=CH-NR<sup>25</sup>R<sup>26</sup> or CH=CHCONR<sup>25</sup>R<sup>26</sup>, having a stereochemistry of E or Z, wherein R<sup>25</sup> and R<sup>26</sup> are independently defined as in h);
  - j)  $(CH_2)_k R^{25}$ ,  $(CH_2)_k COOR^{25}$ , or  $(CH_2)_k OR^{25}$ , wherein k is an integer from 2 to 6 and  $R^{25}$  is defined as in f);
  - k) (CH<sub>2</sub>)<sub>k</sub>NR<sup>25</sup>R<sup>26</sup>, (CH<sub>2</sub>)<sub>k</sub>CONR<sup>25</sup>R<sup>26</sup>, wherein R<sup>25</sup> and R<sup>26</sup> are selected independently, and R<sup>25</sup> and R<sup>26</sup> are defined as R<sup>25</sup> in f);
- 20 l) CH<sub>2</sub>XR<sup>27</sup>, wherein X is O or S and R<sup>27</sup> is H, substituted or unsubstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl;

R<sup>4</sup> is selected from the group consisting of:

m) H, substituted or unsubstituted C(1-8) alkyl;

n)

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wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, arly, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system;

30 R<sup>5</sup> is selected from the group consisting of:

o) a lone pair when X<sup>5</sup> is N; and when X<sup>5</sup> is C, R<sup>5</sup> is selected from the group consisting of:

p) H, substituted and unsubstituted C(1-8) alkyl:); or

q)

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carbon.

wherein X=O, S, or NH, n=1 to 4 and  $R^{51}$  is H,  $R^{52}$  and  $R^{53}$  are independently chosen from the group consisting of H, substituted or unsusbstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or  $R^{51}$  and  $R^{52}$  are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system; or when  $A^1$  and  $A^2$ , and  $B^1$  and  $B^2$ , respectively combine to form oxygen,  $R^1$ - $R^3$  and  $R^5$ - $R^8$  are H, and  $R^4$  is H or CH<sub>3</sub>, at least one of  $X^1$  –  $X^9$  represents a ring member other than

2. A pharmaceutically active compound represented by formula I;

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or a pharmaceutically acceptable salt thereof wherein:

 $X^1 - X^3$  are independently C or N;

 $X^4$  is CH or N, wherein not more than two of  $X^1 - X^4$  is N;

 $X^6 - X^8$  are independently C or N;

 $X^9$  is CH or N, wherein not more than two of  $X^6$  -  $X^9$  is N;

 $R^1$ - $R^3$  and  $R^6$ - $R^8$  represent a lone pair or O when each respective  $X^1$ - $X^3$  and  $X^6$ - $X^8$  is N; and

when  $X^1 - X^3$  or  $X^6 - X^8$  is C, each respective  $R^1 - R^3$  and  $R^6 - R^8$  is independently selected from the group consisting of:

- a) H, substituted or unsubstituted C(1-8) alkyl, halogen, azido, cyano, nitro, or NR<sup>21</sup>R<sup>22</sup>, wherein R<sup>21</sup> represents H or C(1-8) alkyl, and R<sup>22</sup> represents H, substituted or unsubstituted C(1-8) alkylcarbonyl, substituted or unsubstituted arylcarbonyl, heterocycle, substituted or unsubstituted heteroarylcarbonyl, substituted or unsubstituted C(1-8) alkylaminocarbonyl, substituted or unsubstituted arylaminocarbonyl;
- b) OR<sup>23</sup>, wherein R<sup>23</sup> is H, substituted or unsubstituted alkylcarbonyl, substituted or unsubstituted arylcarbonyl;
  - c) SR<sup>23</sup>, wherein R<sup>23</sup> is defined as in b);
  - d) O(CH<sub>2</sub>)<sub>j</sub>-R<sup>24</sup>, O(CH<sub>2</sub>)<sub>j</sub>-O-R<sup>24</sup>, or O(CH<sub>2</sub>)<sub>j</sub>-S-R<sup>24</sup>, wherein j is an integer from 1 to 8, and R<sup>24</sup> is selected from the group consisting of H, substituted or unsubstituted C(1-8) alkyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl;
- e)  $S(CH_2)_jR^{24}$ ,  $S(CH_2)_j-O-R^{24}$ , or  $S(CH_2)_j-S-R^{24}$ , wherein j and  $R^{24}$  are defined as in d);
  - f)  $C = C R^{25}$ ,  $C = C OR^{25}$ , or  $C = C CO_2R^{25}$ , wherein  $R^{25}$  is H, substituted or unsubstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, or substituted heteroaryl;
  - g) CH=CH-R<sup>25</sup>, CH=CH-OR<sup>25</sup>, or CH=CH-CO<sub>2</sub>R<sup>25</sup>, having a stereochemistry of E or Z, and R<sup>25</sup> is defined as in f);
- 20 h)  $C = C NR^{25}R^{26}$  or  $C = CCONR^{25}R^{26}$ , wherein  $R^{25}$  is defined as in f), and  $R^{26}$  is defined as  $R^{25}$ , and  $R^{25}$  and  $R^{26}$  are selected independently;
  - i) CH=CH-NR<sup>25</sup>R<sup>26</sup> or CH=CHCONR<sup>25</sup>R<sup>26</sup>, having a stereochemistry of E or Z, wherein  $R^{25}$  and  $R^{26}$  are independently defined as in h);
- j) (CH<sub>2</sub>)<sub>k</sub>R<sup>25</sup>, (CH<sub>2</sub>)<sub>k</sub>-COOR<sup>25</sup>, or (CH<sub>2</sub>)<sub>k</sub>-OR<sup>25</sup>, wherein k is an integer from 2 to 6 and
   R<sup>25</sup> is defined as in f);
  - k)  $(CH_2)_kNR^{25}R^{26}$ ,  $(CH_2)_kCONR^{25}R^{26}$ , wherein  $R^{25}$  and  $R^{26}$  are selected independently, and  $R^{25}$  and  $R^{26}$  are defined as  $R^{25}$  in f);
  - 1)  $CH_2XR^{27}$ , wherein X is O or S and  $R^{27}$  is H, substituted or unsubstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl;
- 30 R<sup>4</sup> is selected from the group consisting of:
  - m) H, substituted or unsubstituted C(1-8) alkyl;
  - n)

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wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, arly, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system;

R<sup>5</sup> is selected from the group consisting of:

- o) a lone pair when  $X^5$  is N; and when  $X^5$  is C,  $R^5$  is selected from the group consisting of:
- p) H, substituted and unsubstituted C(1-8) alkyl:); or

10 q)

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wherein X=O, S, or NH, n=1 to 4 and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, substituted or unsusbstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system; or wherein in formula I, when A<sup>1</sup> and A<sup>2</sup>, and B<sup>1</sup> and B<sup>2</sup>, respectively combine to form oxygen, R<sup>1</sup>-R<sup>3</sup> and R<sup>5</sup>-R<sup>8</sup> are H, and R<sup>4</sup> is H or CH<sub>3</sub>, at least one of X<sup>1</sup> – X<sup>9</sup> represents a ring member other than carbon.

20 3. A pharmaceutically active compound represented by formula II;

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or a pharmaceutically acceptable salt thereof wherein:

X<sup>1</sup> - X<sup>3</sup> are independently C or N;

 $X^4$  is CH or N, wherein not more than two of  $X^1 - X^4$  is N;

X<sup>6</sup> - X<sup>8</sup> are independently C or N;

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 $X^9$  is CH or N, wherein not more than two of  $X^6 - X^9$  is N;

 $R^1$ - $R^3$  and  $R^6$ - $R^8$  represent a lone pair or O when each respective  $X^1$ - $X^3$  and  $X^6$ - $X^8$  is N; and

when  $X^1 - X^3$  or  $X^6 - X^8$  is C, each respective  $R^1 - R^3$  and  $R^6 - R^8$  is independently selected from the group consisting of:

- a) H, substituted or unsubstituted C(1-8) alkyl, halogen, azido, cyano, nitro, or NR<sup>21</sup>R<sup>22</sup>, wherein R<sup>21</sup> represents H or C(1-8) alkyl, and R<sup>22</sup> represents H, substituted or unsubstituted C(1-8) alkylcarbonyl, substituted or unsubstituted arylcarbonyl, heterocycle, substituted or unsubstituted heteroarylcarbonyl, substituted or unsubstituted C(1-8) alkylaminocarbonyl, substituted or unsubstituted arylaminocarbonyl;
- b) OR<sup>23</sup>, wherein R<sup>23</sup> is H, substituted or unsubstituted alkylcarbonyl, substituted or unsubstituted arylcarbonyl;
- c) SR<sup>23</sup>, wherein R<sup>23</sup> is defined as in b);
- d) O(CH<sub>2</sub>)<sub>j</sub>-R<sup>24</sup>, O(CH<sub>2</sub>)<sub>j</sub>-O-R<sup>24</sup>, or O(CH<sub>2</sub>)<sub>j</sub>-S-R<sup>24</sup>, wherein j is an integer from 1 to 8, and R<sup>24</sup> is selected from the group consisting of H, substituted or unsubstituted C(1-8) alkyl, substituted or unsubstituted aryl, substituted or unsubstituted heteroaryl;
  - e)  $S(CH_2)_j R^{24}$ ,  $S(CH_2)_j O R^{24}$ , or  $S(CH_2)_j S R^{24}$ , wherein j and  $R^{24}$  are defined as in d);
- f) C≡C-R<sup>25</sup>, C≡C-OR<sup>25</sup>, or C≡C-CO<sub>2</sub>R<sup>25</sup>, wherein R<sup>25</sup> is H, substituted or unsubstituted
   C(1-8) alkyl, aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

g) CH=CH-R<sup>25</sup>, CH=CH-OR<sup>25</sup>, or CH=CH-CO<sub>2</sub>R<sup>25</sup>, having a stereochemistry of E or Z, and R<sup>25</sup> is defined as in f);

- h)  $C = C NR^{25}R^{26}$  or  $C = CCONR^{25}R^{26}$ , wherein  $R^{25}$  is defined as in f), and  $R^{26}$  is defined as  $R^{25}$ , and  $R^{25}$  and  $R^{26}$  are selected independently;
- 5 i) CH=CH-NR<sup>25</sup>R<sup>26</sup> or CH=CHCONR<sup>25</sup>R<sup>26</sup>, having a stereochemistry of E or Z, wherein R<sup>25</sup> and R<sup>26</sup> are independently defined as in h);
  - j)  $(CH_2)_k R^{25}$ ,  $(CH_2)_k$ -COOR<sup>25</sup>, or  $(CH_2)_k$ -OR<sup>25</sup>, wherein k is an integer from 2 to 6 and  $R^{25}$  is defined as in f);
- k) (CH<sub>2</sub>)<sub>k</sub>NR<sup>25</sup>R<sup>26</sup>, (CH<sub>2</sub>)<sub>k</sub>CONR<sup>25</sup>R<sup>26</sup>, wherein R<sup>25</sup> and R<sup>26</sup> are selected independently,
   and R<sup>25</sup> and R<sup>26</sup> are defined as R<sup>25</sup> in f);
  - 1) CH<sub>2</sub>XR<sup>27</sup>, wherein X is O or S and R<sup>27</sup> is H, substituted or unsubstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl;

R<sup>4</sup> is selected from the group consisting of:

m) H, substituted or unsubstituted C(1-8) alkyl

15 n)

wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, arly, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system;

R<sup>5</sup> is selected from the group consisting of:

- o) a lone pair when X<sup>5</sup> is N; and when X<sup>5</sup> is C, R<sup>5</sup> is selected from the group consisting of:
- p) H, substituted and unsubstituted C(1-8) alkyl:); or
- 25 q)

wherein X=O, S, or NH, n=1 to 4 and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, substituted or unsusbstituted C(1-8) alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroalkyl, or substituted heteroaryl ring system; or

5 wherein in formula I, when A<sup>1</sup> and A<sup>2</sup>, and B<sup>1</sup> and B<sup>2</sup>, respectively combine to form oxygen, R<sup>1</sup>-R<sup>3</sup> and R<sup>5</sup>-R<sup>8</sup> are H, and R<sup>4</sup> is H or CH<sub>3</sub>, at least one of X<sup>1</sup> – X<sup>9</sup> represents a ring member other than carbon.

- 4. A compound according to claim 1 wherein  $X^5$  is C,  $X^{10}$  is CH and the bond between  $X^5$  and  $X^{10}$  is a double bond.
  - 5. A compound according to claim 1 wherein  $X^5$  is N,  $R^5$  is a lone pair,  $X^{10}$  is CH and the bond between  $X^5$  and  $X^{10}$  is a double bond.
- 15 6. A compound according to claim 1 wherein X<sup>5</sup> is CH, R<sup>5</sup> is H, X<sup>10</sup> is CH<sub>2</sub> and the bond between X<sup>5</sup> and X<sup>10</sup> is a single bond.
  - 7. A compound according to claim 1 wherein R<sup>4</sup> is

- wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system.
- 25 8. A compound according to claim 7 wherein R<sup>51 to 53</sup> are H.
  - 9. A compound according to claim 4 wherein R<sup>4</sup> is

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wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system.

- 10. A compound according to claim 9 wherein R<sup>51 to 53</sup> are H.
- 11. A compound according to claim 5 wherein R<sup>4</sup> is

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wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system.

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- 12. A compound according to claim 11 wherein R<sup>51 to 53</sup> are H.
- 13. A compound according to claim 6 wherein R<sup>4</sup> is

wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl,

substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroalkyl, heteroaryl, or substituted heteroaryl ring system.

- 14. A compound according to claim 13 wherein R<sup>51 to 53</sup> are H.
- 15. A compound according to claim 4 wherein R<sup>4</sup> is methyl and R<sup>5</sup> is

wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroalkyl, heteroaryl, or substituted heteroaryl ring system.

- 16. A compound according to claim 15 wherein R<sup>51 to 53</sup> are H.
- 15 17. Compounds 143, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 159, 160, 166, 167, 168, 170.
  - 18. A compound represented by formula I as defined in claim 2 wherein R<sup>4</sup> is methyl, X<sup>5</sup> is carbon and R<sup>5</sup> is

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wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system.

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19. A compound according to claim 18 wherein R<sup>51-53</sup> are H.

20. A compound represented by formula I as defined in claim 2 wherein R<sup>4</sup> is

wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroalkyl, heteroaryl, or substituted heteroaryl ring system; or

- 21. A compound according to claim 20 wherein R<sup>51-53</sup> are H.
- 22. A compound represented by formula II as defined in claim 3 wherein R<sup>4</sup> is

wherein X=O, S, or NH, n=1 to 4, and R<sup>51</sup> is H, R<sup>52</sup> and R<sup>53</sup> are independently chosen from the group consisting of H, alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, or R<sup>51</sup> and R<sup>52</sup> are combined to form a heteroalkyl, substituted heteroaryl, or substituted heteroaryl ring system.

- 23. A compound according to claim 22 wherein R<sup>51-53</sup> are H.
- 20 24. Compounds 167 and 168.
  - 25. A method of treatment or prevention of a condition resulting from loss of growth and cellular differentiation control, as in cancer, by administration of an effective amount of a compound according to any one of claims 1 to 24 to a patient in need thereof.

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26. The method of treatment according to claim 25, wherein said compound is combined with an anti-neoplastic, an anti-neurotoxic or an antisense compound.

- A pharmaceutical composition comprising a pharmaceutically effective amount of
   a compound according to any one of claims 1 to 24 in combination with a
   pharmaceutically acceptable carrier.
  - 28. The pharmaceutical composition according to claim 27, additionally comprising an anti-neoplastic, an anti-neurotoxic, an anti-depressant or an antisense compound.
  - 29. A method of treating cancer or inflammatory diseases comprising administering to a subject in need thereof a compound according to any one of claims 1 to 24.
  - 30. Use of any one of compounds 133 to 142 and 169 as an an anticancer agent.